

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A method for producing a modified propylene homopolymer, the method comprising:

modifying a propylene homopolymer with a radical initiator and an organic acid,;

wherein the propylene homopolymer satisfies the conditions: ~~of~~

(a)  $m_{mmmm} = 20 \text{ to } 60 \text{ mol\%}, \underline{\%};$

(b)  $[r_{rrr}/(1-m_{mmmm})] \leq 0.1,$

(c)  $r_{mrm} > 2.5 \text{ mol\%}, \underline{\%};$

(d)  $m_{mr} \times r_{rr} / (m_{rr})^2 \leq 2.0,$  and

(e) ~~the~~ a weight ratio (W25) of components eluted at 25°C or lower in a temperature programmed chromatography is 20 to 100% by weight.

Claim 2 (Currently Amended): The method according to claim 1, wherein the propylene homopolymer further satisfies at least one of the conditions: ~~of~~

(f) ~~the~~ a molecular weight distribution (Mw/Mn) measured by a gel permeation chromatography (GPC) is 5 or less, ~~and/or;~~ and

(g) ~~the~~ a limiting viscosity  $[\eta]$  measured in tetralin at 135° C. is 0.1 dL/g or more.

Claims 3-4 (Cancelled)

Claim 5 (Previously Presented): The method according to claim 1, wherein the propylene homopolymer is modified in an organic solvent.

Claim 6 (Previously Presented): The method according to claim 1, wherein the propylene homopolymer is modified in the molten state.

Claim 7 (Previously Presented): The method according to claim 1, wherein the radical initiator is a peroxide, and the organic acid is maleic anhydride, acrylic acid, or an alkyl acrylate.

Claim 8 (Previously Presented): The method according to claim 1, wherein the propylene homopolymer is modified in the presence of a styrene-based compound.

Claim 9 (Original): A modified propylene homopolymer obtained by the method according to claim 1.

Claim 10 (Cancelled)

Claim 11 (Original): An adhesive composition comprising the modified propylene homopolymer according to claim 9.

Claim 12 (Previously Presented): The adhesive composition according to claim 11, wherein the adhesive composition comprises 20 to 99% by weight of the modified propylene homopolymer and 1 to 80% by weight of a tackifying resin.

Claims 13-18 (Cancelled)